

# PALLAVI PATIL

Software Engineer

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## PROFESSIONAL SUMMARY

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Software engineer with 3+ years of experience building and maintaining full-stack applications, with a strong backend focus across Python (Flask), Node.js, alongside React.js the frontend. Comfortable designing and integrating REST APIs, working with SQL and NoSQL databases, and deploying applications on Linux and cloud platforms (AWS, Azure) using Docker and CI/CD pipelines (GitLab). Experienced in authentication and access control (JWT, OAuth, RBAC), debugging and root-cause analysis, and delivering production support for live customer environments. Comfortable working in Agile teams, documenting APIs and systems clearly, and collaborating across engineering, product, and QA.

## CORE SKILLS

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**Languages:** Python (Flask), JavaScript/TypeScript, Node.js

**Frontend:** React.js, HTML/CSS

**APIs & Architecture:** REST API design & integration, FastAPI, microservices-style architecture, event-driven patterns

**Databases:** PostgreSQL, MySQL, SQL Server, MongoDB

**Cloud & DevOps:** AWS, CI/CD (GitLab), Git, Linux deployment & troubleshooting

**Security:** JWT, OAuth, Role-Based Access Control (RBAC)

**Tools & Practices:** Jira (ticketing & tracking), Agile/Scrum, code reviews, root-cause analysis, API documentation

**Other:** Redis caching, Power BI dashboards, TensorFlow-based anomaly detection, SAP integration

## PROFESSIONAL EXPERIENCE

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### Associate Software Engineer | TransformHub

*Jun 2026 - Present*

- Build and maintain full-stack features using React.js and TypeScript for the Operations Portal, working directly with the client's operations team to translate business requirements into technical solutions.
- Debug and troubleshoot production issues, emphasizing data accuracy and control, and communicating fixes clearly to non-technical stakeholders.
- Collaborate with product and QA to deliver features end-to-end, using Git-based version control and CI/CD pipelines.

### IT Engineer | Capacite

*May 2025 – June 2026*

- Design and maintain backend modules and REST APIs for the company's **ERP system**, taking features from design through deployment.
- Debug and resolve issues in live production workloads, using query optimization and database indexing to fix performance problems.
- Ensure code quality through testing and peer code reviews before releasing features.
- Manage version-controlled database schema migrations using Liquibase and Git, reducing deployment risk across environments.
- Contribute to CI/CD pipelines in GitLab, streamlining build, test, and deployment processes for the engineering team.
- Develop and integrate REST APIs, debug issues, and fix bugs to keep the portal reliable for the client's operations team.
- Collaborate with product and QA to deliver features end-to-end, using Git and Jira for version control and issue tracking.

### Software Engineer | Kosqu Technolabs

*Mar 2023 -- May 2025*

- Designed and built **multiple production software applications using Python (Flask) and Node.js along with React.js** (frontend) and translating business requirements into working, full-stack applications.
- Built RESTful backend services using FastAPI alongside Flask, integrating internal systems and APIs into functional, user-facing products.
- Engineered backend systems that automated B2B data workflows and enabled cross-platform integrations.
- Implemented secure authentication and authorization using JWT and role-based access control (RBAC).
- Reduced database response time by 40% through query refactoring, indexing, and execution plan optimization.
- Containerized services with Docker and contributed to CI/CD-driven deployment workflows.
- Diagnosed and resolved customer-facing issues across distributed application components through structured root-cause analysis.
- Used **Jira** for ticket creation, tracking, and testing workflows, and authored API documentation and integration guidelines.
- Developed and maintained an Employee Self-Service (ESS) SaaS portal, automating HR workflows for employee management.

- Delivered production support for live customer environments, resolving high-priority incidents and monitoring application health.
- Built and maintained frontend components using React.js and TypeScript, improving code reliability through static typing and reducing runtime errors.
- Deployed and managed application services on AWS, working with core services to support production workloads.

## Software Developer | Grizla Technologies Limited

Oct 2022 -- Dec 2022

- Developed and tested REST APIs for production systems.
- Contributed to technical design discussions and system requirements analysis.
- Performed root-cause analysis and refactored legacy code to improve system stability and maintainability.

## PROJECTS

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### Ozaveria -- B2B Gold Trading Platform

*Tech Stack: React Native, React.js, Node.js, PostgreSQL, Redis*

- Led architecture of a full-stack, multi-platform ecosystem -- React Native mobile app, React.js web portal, and marketing site -- serving gold traders across India.
- Built scalable Node.js backend services with secure REST APIs and role-based access control, powering both mobile and web front-ends.
- Designed optimized PostgreSQL schemas to support high-concurrency trading and real-time market data updates.
- Implemented Redis caching for frequently accessed market and customer data, reducing repeated database queries and improving API response times.

### Real-Time Monitoring System

*Tech Stack: Python, HTML/CSS/JavaScript, SQL Server, SAP Integration, Power BI, TensorFlow*

- Built a Python-based backend to ingest machine data, detect anomalies, and flag incorrect readings in real time, using TensorFlow-based models.
- Integrated with SAP to automate notifications and ticket generation, streamlining issue tracking and resolution.
- Designed optimized SQL Server schemas and implemented automated PDF data extraction for operational reporting.
- Developed interactive dashboards in HTML/CSS/JavaScript and Power BI for real-time monitoring and performance visualization.
- Reduced manual monitoring effort by 40-60% through workflow automation and predictive anomaly detection.

## EDUCATION

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**Jain University** Aug 2023 -- Dec 2025

Master of Computer Applications -- CGPA: 7.8

**University of Mumbai** Sept 2020 -- Mar 2023

Bachelor of Computer Science -- CGPA: 9.6